

**PATIENT**

Braxton Parker

SPECIES

Canine

BREED

Chihuahua

SEX

MN

AGE

13 yr

WEIGHT

5.5 lb

INTERPRETED BYR. McKenzie Daniel,
DVM, DABVP
(Canine and Feline)**IMAGING PERFORMED BY**

Rachel Runnells RVT

HOSPITAL NAME

SVS Imaging KC

REFERRING VET

Dr. Oetting

INVOICE

10933ag

DATE

06/24/2022

PRESENTING CLINICAL SIGNS

History: Presented yesterday for Pre-anesthetic bloodwork for dental. SIGNIFICANT dental disease, but otherwise asymptomatic for any problems. On 3/30/22 patient presented for shaking head, falling over, vomiting & anorexia. Hospitalized for fluids, antibiotics, steroids, anti-emetics. Started NeuroCare food. All symptoms resolved, and have not reoccurred.

Abnormal PE/Chem/CBC/UA Results: 3/30/22: SDMA 16 (0-14), BUN 23 (9-31), crea 0.6 (0.5-1.5), ALT 56 (18-121), AST 20 (16-55), CK 64 (10-200). TODAY: SDMA 20, BUN 79, crea 1.1, ALT 603, AST 328. Total bili, ALP and GGT normal both times. No changes other than transition on 3/30 to NeuroCare diet. 3/30 Rads of skull as read by MU VHC: permeative lysis of the calvarium suspicious for choriocarcinoma, fibrosarcoma, or invasive meningioma.

ULTRASONOGRAPHIC EXAMINATION OF THE ABDOMEN**Urinary System**

The urinary bladder, trigone, cystourethral junction, and visible pelvic urethra to a depth of 1 cm exhibited normal thickness and tone. Anechoic urine was present in the lumen with no uroliths or sediment. The ureteral papillae were normal. The ureters were not visible which is normal. No evidence of inflammatory or neoplastic changes were noted.

Normal size and margination was present in the kidneys. A normal 1:3 cortex / medulla ratio was maintained. The medulla and cortices were uniform in texture with some increased echogenicity and mild to moderate loss of corticomedullary symmetry and definition expected for the age of the patient. No evidence of pelvic dilation was present. Pinpoint areas of medullary mineral were noted. The left kidney measured 3.1 cm in length. The right kidney measured 3.6 cm in length.

The area of the aortic trifurcation was free of pathology.

The area of the residual prostate was free of pathology.

Adrenal Glands

The left adrenal gland was uniform in size and contour with a uniformly hypoechoic parenchyma. The left adrenal gland measured 0.39 cm width at the caudal pole and 1.4 cm. The right adrenal gland was uniform in size and contour with a uniformly hypoechoic parenchyma. The right adrenal gland measured 0.45 cm width at the caudal pole and 1.3 cm.

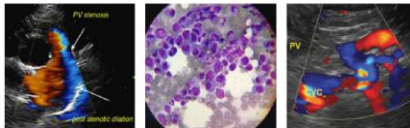
Spleen

The spleen exhibited primarily finely textured parenchyma which was hyperechoic to the liver and renal cortical parenchyma. Mild generalized parenchyma heterogeneity was present without evidence of nodular changes. The capsule was smooth and regular without apparent expansion. The splenic vasculature at the hilus was normal in volume with no evidence of congestion or thrombosis. The parenchymal heterogeneity is likely consistent with benign changes such as extramedullary hematopoiesis or age related remodeling with minor potential for inflammatory or neoplastic disease.

Liver

The liver was subjectively normal in size, structure, and contour. The liver parenchyma was uniform and hypoechoic to the spleen with a mild coarse echotexture. The hepatic and portal vasculature were normal in appearance without signs of congestion. The gallbladder was non-distended in size with thin walls and primarily anechoic luminal content with mild nondependent yet mobile hyperechoic debris. The cystic and common bile ducts were normal.

Gastrointestinal

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The stomach presented intact wall layering with a normal wall layer ratio. The lumen of the stomach was empty with no signs of ileus, obstruction or foreign material.

SPECIES

Canine

The small intestine presented intact wall layering with 1:3 muscularis/mucosa ratio. The lumen of the small intestine was empty with no signs of ileus, obstruction or foreign material.

Normal visible colon wall layers were present with apparent formed feces in lumen.

Pancreas**BREED**

Chihuahua

The pancreas was normal in size and contour with isoechoic to heterogeneous parenchyma compared to adjacent omentum. No signs of active inflammation or neoplasia

Free Abdomen**SEX**

MN

No omental masses, overt lymphadenopathy or peritoneal effusion was present.

ULTRASONOGRAPHIC FINDINGS**AGE**

13 yr

- Benign hepatopathy
- Mild to moderate chronic renal changes with pinpoint medullary mineral
- Minor pancreatic remodeling-consistent with age related changes
- Mild gallbladder debris non-mucocele

WEIGHT

5.5 lb

INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

A largely geriatric abdomen without evidence of significant visceral pathology. The sonographic appearance of the liver is consistent with benign hepatopathy and without evidence of neoplastic criteria, considerations may include metabolic vacuolar reactive hepatopathy or hepatitis given the ALT/AST elevation. Assuming normal clotting status a screening hepatic FNA using a 25g needle could be considered for cytology primarily to assess for evidence of inflammatory cells. Given the presence of concurrent gallbladder debris, cholangiohepatitis may be considered a top differential. Hepatosupportive medications including Denamarin and Ursodiol may prove beneficial.

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Further renal staging to include urine C/S and protein: creatinine ratio on sterile urine sample may be considered.

No evidence of neoplastic/metastatic criteria was observed.

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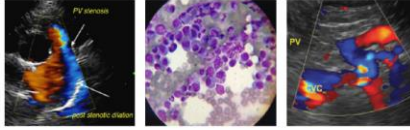
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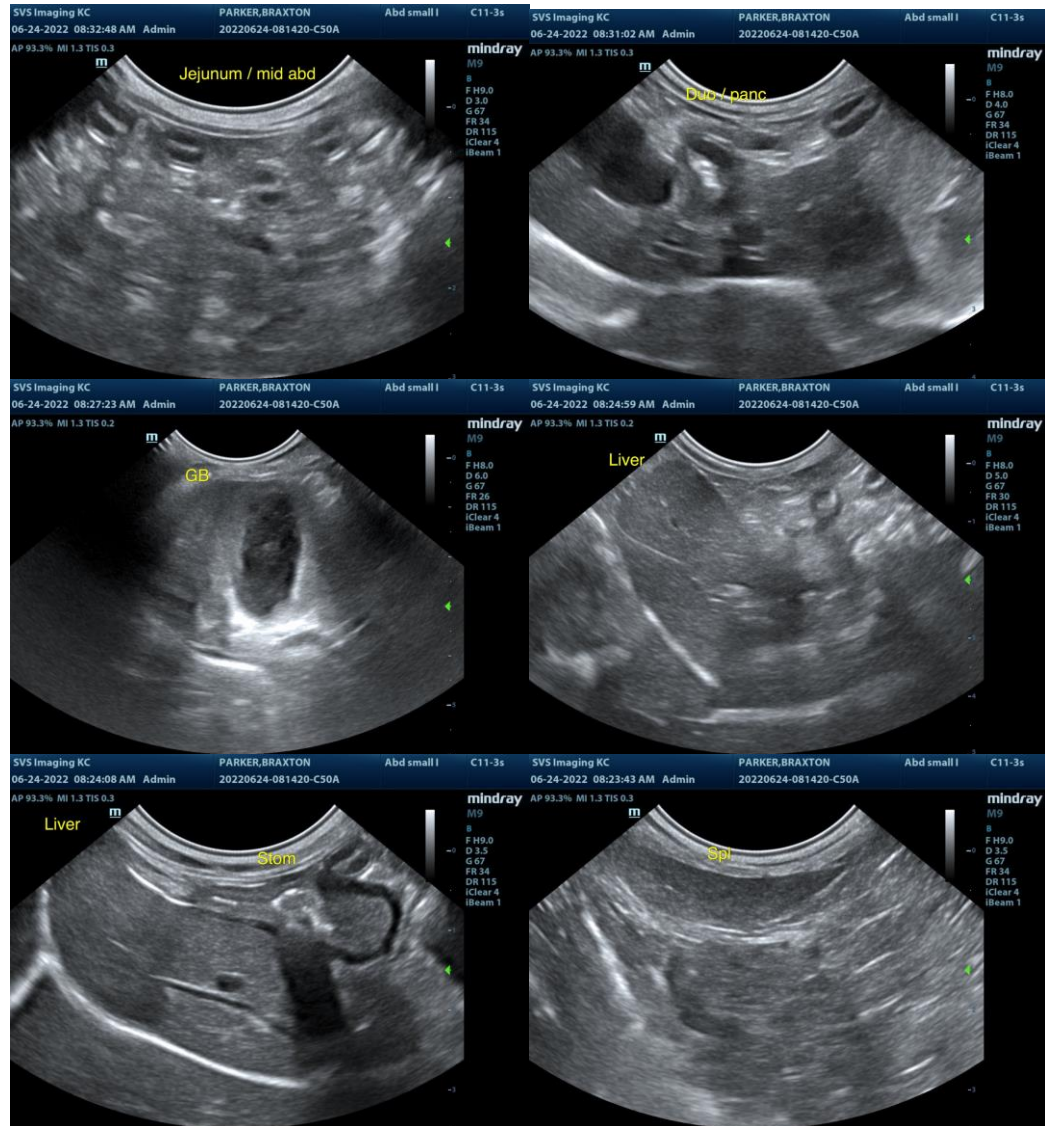
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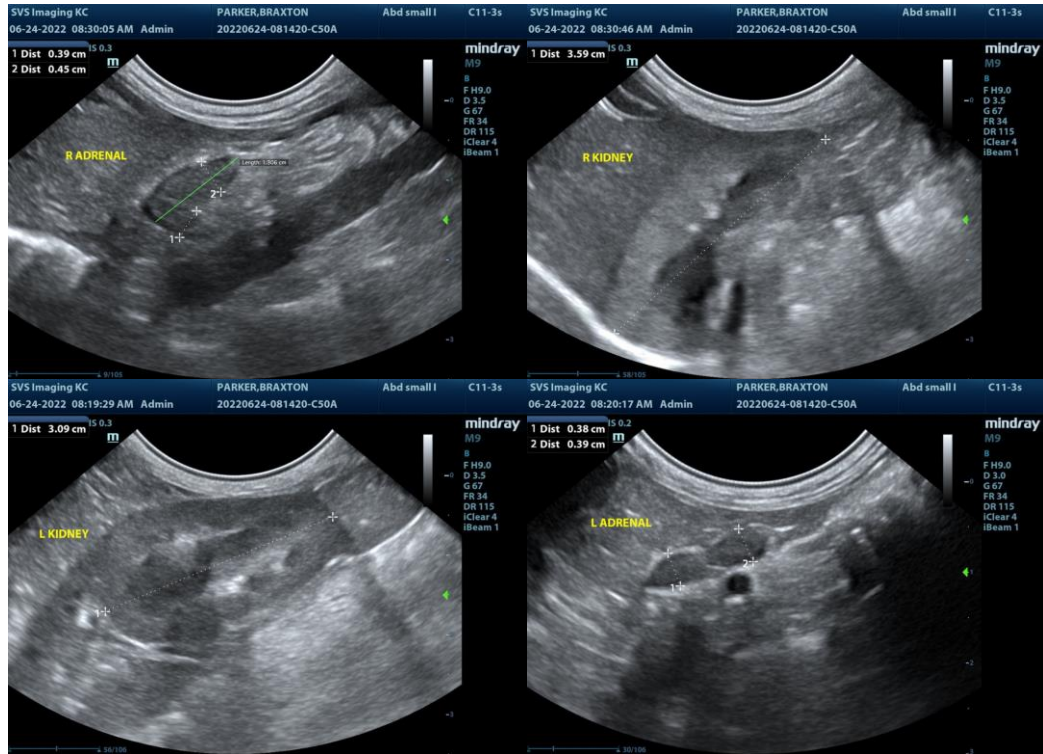
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The information and recommendations provided are based on the images presented by the referring veterinarian/sonographer. No evaluation can be communicated regarding pathology that was not visible in the image/video clips provided.

Thank you for this referral. If the clinical or image interpretation does not parallel your findings or if I can be of any further assistance please contact me.

R. McKenzie Daniel, DVM, DABVP (Canine / Feline Practice)

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